



SEQUENCE LISTING

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GEDULIN, BRONISLAVA

<120> METHODS FOR GLUCAGON SUPPRESSION

<130> 030639.0031.UTL1 (249/167)

<140> US 09/889,331

<141> 2001-07-13

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<151> 2000-01-14

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<150> 60/132,017

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<151> 2000-01-10

<160> 239

<170> FastSEQ for Windows Version 4.0
Microsoft WORD 97 SR-2

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<213> *Heloderma Horridum*

<220>

<221> AMIDATION

<222> (39)

<223> Ser in position 39 is amidated

<400> 1

His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 2

<211> 39

<212> PRT

<213> *Heloderma Suspectum*

<220>

<221> AMIDATION

<222> (39)

<223> Ser in position 39 is amidated

<400> 2

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<400> 3

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
20 25 30

<210> 4

<211> 30

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (30)

<223> Gly in position 30 is amidated

<400> 4

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
20 25 30

<210> 5

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
Construct

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<222> (30)
<223> AMIDATION, Position 30 is Gly-NH2

<400> 5
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
20 25 30

<210> 6
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<220>
<223> Description of Artificial Sequence: Synthetic
Construct

<220>
<221> MOD_RES
<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 6
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 7
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<220>
<223> Description of Artificial Sequence: Synthetic
Construct

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<221> MOD_RES
<222> (30)
<223> AMIDATION, Position 30 is Gly-NH2

<400> 7
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

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<220>
<223> Description of Artificial Sequence: Synthetic
Construct

<220>
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<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 8
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 9
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Construct

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<222> (28)
<223> AMIDATION, Position 28 is Asn-NH2

<400> 9
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Ala Val Arg Leu Ala Ile Glu Phe Leu Lys Asn
20 25

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Construct

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<223> AMIDATION, Position 39 is Ser-NH2

<400> 10

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

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Construct

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<221> MOD_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 11

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 12

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<223> Description of Artificial Sequence: Synthetic
Construct

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<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 12

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser

<210> 13
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<223> AMIDATION, Position 39 is Ser-NH2

<400> 13
Tyr Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

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<400> 14
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Tyr
35

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Construct

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<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 15
His Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 16
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<223> Description of Artificial Sequence: Synthetic
Construct

<220>
<221> VARIANT
<222> (6)
<223> Xaa is naphthylalanine

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 16
His Gly Glu Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 17
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<220>
<223> Description of Artificial Sequence: Synthetic
Construct

<220>
<221> MOD_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 17

His Gly Glu Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 18

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<223> Description of Artificial Sequence: Synthetic
Construct

<220>

<221> MOD_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 18

His Gly Glu Gly Thr Phe Ser Thr Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 19

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<212> PRT

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<223> Description of Artificial Sequence: Synthetic
Construct

<220>

<221> MOD_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 19

His Gly Glu Gly Thr Phe Thr Thr Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

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Construct

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<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 20
His Gly Glu Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

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Construct

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<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<220>
<221> VARIANT
<222> (10)
<223> Xaa is pentylglycine

<400> 21
His Gly Glu Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 22
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<220>
<223> Description of Artificial Sequence: Synthetic Construct

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<220>
<221> VARIANT
<222> (10)
<223> Xaa is pentylglycine

<400> 22
His Gly Glu Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

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<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<220>
<221> VARIANT
<222> (14)
<223> Xaa is pentylglycine

<400> 23
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 24
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Construct

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<221> VARIANT
<222> (14)
<223> Xaa is pentylglycine

<400> 24
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

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Construct

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<222> (39)
<223> AMIDATION, Postion 39 is Ser-NH2

<220>
<221> VARIANT
<222> (22)
<223> Xaa is napthylalanine

<400> 25
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 26
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<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Construct

<220>

<221> MOD_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 26

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Val Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 27

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<212> PRT

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<223> Description of Artificial Sequence: Synthetic Construct

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<221> MOD_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 27

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Val Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 28

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<212> PRT

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<223> Description of Artificial Sequence: Synthetic Construct

<220>

<221> MOD_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 28

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Val Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 29

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<223> Description of Artificial Sequence: Synthetic
Construct

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<221> VARIANT

<222> (23)

<223> Xaa at position 23 is tertiary-butylglycine

<220>

<221> MOD_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 29

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Xaa Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 30

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<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
Construct

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<221> MOD_RES

<222> (39)

<223> AMIDATION, Position 39 is Ser-NH2

<400> 30

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu

1

5

10

15

Glu Ala Val Arg Leu Phe Ile Asp Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 31
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<220>
<223> Description of Artificial Sequence: Synthetic
Construct

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<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 31
His Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 32
<211> 39
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
Construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa at position 31 is thioproline

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36,37 and 38 is thioproline

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 32

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 33
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Construct

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36, 37, and 38 is thioproline

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 33
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 34
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<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa at position 31 is homoproline

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36, 37, and 38 is homoproline

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 34
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 35
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<213> Artificial Sequence

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Construct

<220>
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<222> (36)..(38)
<223> Xaa at positions 36, 37, and 38 is homoproline.

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 35
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 36
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<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Construct

<220>
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<222> (31)
<223> Xaa at position 31 is thioproline

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36,37, and 38 is thioproline

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 36
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 37
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<212> PRT
<213> Artificial Sequence

<220>
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Construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa at position 31 is homoproline

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36,37, and 38 is homoproline

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 37
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 38
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa at position 31 is N-methylalanine

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36, 37 and 38 is N-methylalanine

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 38
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 39
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Construct

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36, 37, and 38 is N-methylalanine

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 39
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 40
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<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
Construct

<220>
<221> VARIANT
<222> (31)
<223> Xaa at position 31 is N-methylalanine

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa at positions 36, 37, and 38 is N-methylalanine

<220>
<221> MOD_RES
<222> (39)
<223> AMIDATION, Position 39 is Ser-NH2

<400> 40
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Ser
35

<210> 41
<211> 29
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Construct

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 is His, Arg or Tyr

<220>
<221> VARIANT
<222> (2)
<223> Xaa at position 2 is Ser, Gly Ala, or Thr

<220>
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<222> (3)
<223> Xaa at position 3 is Asp or Glu

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<222> (5)
<223> Xaa at position 5 is Ala or Thr

<220>
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<222> (6)
<223> Xaa at position 6 is Ala, Phe, Tyr or
naphthylalanine

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<222> (7)
<223> Xaa at position 7 is Thr or Ser

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<222> (8)
<223> Xaa at position 8 is Ala, Ser or Thr

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<222> (9)
<223> Xaa at position 9 is Asp or Glu

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<222> (10)
<223> Xaa at position 10 is Ala, Leu, Ile, Val,
pentylglycine, or Met

<220>
<221> VARIANT
<222> (11)
<223> Xaa at position 11 is Ala or Ser

<220>
<221> VARIANT
<222> (12)
<223> Xaa at position 12 is Ala or Lys

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<222> (13)
<223> Xaa at position 13 is Ala or Gln

<220>
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<222> (14)
<223> Xaa at position 14 is Ala, Leu, Ile,
pentylglycine, Val or Met

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<222> (15)
<223> Xaa at position 15 is Ala or Glu

<220>
<221> VARIANT
<222> (16)..(17)
<223> Xaa at position 16 and 17 is Ala or Glu

<220>
<221> VARIANT
<222> (19)
<223> Xaa at position 19 is Ala or Val

<220>
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<223> Xaa at position 20 is Ala or Arg

<220>
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<222> (21)
<223> Xaa at position 21 is Ala or Leu

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<222> (22)
<223> Xaa at position 22 is Ala, Phe, Tyr, or
naphthylalanine

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<222> (23)
<223> Xaa at position 23 is Ile, Val, Leu,
pentylglycine, tert-butylglycine, or Met

<220>
<221> VARIANT
<222> (24)
<223> Xaa at position 24 is Ala, Glu, or Asp

<220>
<221> VARIANT
<222> (25)
<223> Xaa at position 25 is Ala, Trp, Phe, Tyr or
naphthylalanine

<220>
<221> VARIANT
<222> (26)
<223> Xaa at position 26 is Ala or Leu

<220>
<221> VARIANT
<222> (27)

<223> Xaa at position 27 is Ala or Lys

<220>

<221> VARIANT

<222> (28)

<223> Xaa at position 28 is Ala or Asn

<220>

<221> VARIANT

<222> (29)

<223> Xaa at position 29 is OH, NH₂, Gly-OH, Gly-NH₂,
Gly-Gly-OH, Gly-Gly-NH₂ and further as in the
specification

<400> 41

Xaa Xaa Xaa Gly Xaa
1 5 10 15

Xaa
20 25

<210> 42

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Construct

<220>

<221> VARIANT

<222> (1)

<223> Xaa at position 1 is His, Arg, Tyr, Ala,
norvaline, Val, or norleucine

<220>

<221> VARIANT

<222> (2)

<223> Xaa at position 2 is Ser, Gly, Ala, or Thr

<220>

<221> VARIANT

<222> (3)

<223> Xaa at position 3 is Ala, Asp, or Glu

<220>

<221> VARIANT

<222> (4)

<223> Xaa at position 4 is Ala, norvaline, Val,
norleucine or Gly

<220>

<221> VARIANT

<222> (5)

<223> Xaa at position 5 is Ala or Thr

<220>
<221> VARIANT
<222> (6)
<223> Xaa at position 6 is Phe, Tyr, or naphylalanine

<220>
<221> VARIANT
<222> (7)
<223> Xaa at position 7 is Thr or Ser

<220>
<221> VARIANT
<222> (8)
<223> Xaa at position 8 is Ala, Ser, or Thr

<220>
<221> VARIANT
<222> (9)
<223> Xaa at position 9 is Ala, norvaline, norleucine,
Asp or Glu

<220>
<221> VARIANT
<222> (10)
<223> Xaa at position 10 is Ala, Leu, Ile, Val,
petylglycine, or Met

<220>
<221> VARIANT
<222> (11)
<223> Xaa at position 11 is Ala or Ser

<220>
<221> VARIANT
<222> (12)
<223> Xaa at position 12 is Ala or Lys

<220>
<221> VARIANT
<222> (13)
<223> Xaa at position 13 is Ala or Gln

<220>
<221> VARIANT
<222> (14)
<223> Xaa at position 14 is Ala, Leu, Ile,
petylglycine, Val or Met

<220>
<221> VARIANT
<222> (15)..(17)
<223> Xaa at positions 15, 16, and 17 is Ala or Glu

<220>
<221> VARIANT
<222> (19)

<223> Xaa at position 19 is Ala or Val

<220>

<221> VARIANT

<222> (20)

<223> Xaa at position 20 is Ala or Arg

<220>

<221> VARIANT

<222> (21)

<223> Xaa at position 21 is Ala or Leu

<220>

<221> VARIANT

<222> (22)

<223> Xaa at position 22 is Phe, Tyr or napthylalanine

<220>

<221> VARIANT

<222> (23)

<223> Xaa at position 23 is Ile, Val, Leu,
pentylglycine, tert-butylglycine or Met

<220>

<221> VARIANT

<222> (24)

<223> Xaa at position 24 is Ala, Glu or Asp

<220>

<221> VARIANT

<222> (25)

<223> Xaa at position 25 is Ala, Trp, Phe, Tyr or
napthylalanine

<220>

<221> VARIANT

<222> (26)

<223> Xaa at position 26 is Ala or Leu

<220>

<221> VARIANT

<222> (27)

<223> Xaa at position 27 is Ala or Lys

<220>

<221> VARIANT

<222> (28)

<223> Xaa at position 28 is Ala or Asn

<220>

<221> VARIANT

<222> (29)

<223> Xaa at position 29 is OH, NH₂, Gly-OH, Gly-NH₂,
Gly-Gly-OH, Gly-Gly-NH₂ and further as indicated
in the specification

Xaa
1 5 10 15

Xaa Ala Xaa
20 25

<210> 43
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Construct

<220>
<221> VARIANT
<222> (1)
<223> Xaa at position 1 is His or Arg

<220>
<221> VARIANT
<222> (2)
<223> Xaa at position 2 is Gly or Ala

<220>
<221> VARIANT
<222> (3)
<223> Xaa at position 3 is Asp or Glu

<220>
<221> VARIANT
<222> (5)
<223> Xaa at position 5 is Ala or Thr

<220>
<221> VARIANT
<222> (6)
<223> Xaa at position 6 is Ala, Phe, or napthylalanine

<220>
<221> VARIANT
<222> (7)
<223> Xaa at position 7 is Ser, or Thr

<220>
<221> VARIANT
<222> (8)
<223> Xaa at position 8 is Ala, Ser, or Thr

<220>
<221> VARIANT
<222> (9)
<223> Xaa at position 9 is Asp or Glu

<220>
<221> VARIANT

<222> (10)
<223> Xaa at position 10 is Ala, Leu, or pentylglycine

<220>
<221> VARIANT
<222> (11)
<223> Xaa at position 11 is Ala or Ser

<220>
<221> VARIANT
<222> (12)
<223> Xaa at position 12 is Ala or Lys

<220>
<221> VARIANT
<222> (13)
<223> Xaa at position 13 Ala or Gln

<220>
<221> VARIANT
<222> (14)
<223> Xaa at position 14 is Ala, Leu or pentylglycine

<220>
<221> VARIANT
<222> (15)..(17)
<223> Xaa at positions 15, 16, and 17 is Ala or Glu

<220>
<221> VARIANT
<222> (19)
<223> Xaa at position 19 is Ala or Val

<220>
<221> VARIANT
<222> (20)
<223> Xaa at position 20 is Ala or Arg

<220>
<221> VARIANT
<222> (21)
<223> Xaa at position 21 is Ala or Leu

<220>
<221> VARIANT
<222> (22)
<223> Xaa at position 22 is Phe or napthylalanine

<220>
<221> VARIANT
<222> (23)
<223> Xaa at position 23 is Ile, Val or
tert-butylglycine

<220>
<221> VARIANT
<222> (24)

<223> Xaa at position 24 is Ala, Glu or Asp

<220>

<221> VARIANT

<222> (25)

<223> Xaa at position 25 is Ala, Trp or Phe

<220>

<221> VARIANT

<222> (26)

<223> Xaa at position 26 is Ala or Leu

<220>

<221> VARIANT

<222> (27)

<223> Xaa at position 27 is Ala or Lys

<220>

<221> VARIANT

<222> (28)

<223> Xaa at position 28 is Ala or Asn

<220>

<221> VARIANT

<222> (29)

<223> Xaa at position 29 is -OH, -NH2, Gly-OH, Gly-NH2, Gly-Gly-OH, Gly-Gly-NH2, and further as indicated in the specification

<400> 43

Xaa Xaa Xaa Gly Xaa
1 5 10 15

Xaa Ala Xaa
20 25

<210> 44

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Construct

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 is His or Ala

<220>

<221> VARIANT

<222> (2)

<223> Xaa in position 2 is Gly or Ala

<220>

<221> VARIANT
<222> (3)
<223> Xaa in position 3 is Ala, Asp or Glu

<220>
<221> VARIANT
<222> (4)
<223> Xaa in position 4 is Ala or Gly

<220>
<221> VARIANT
<222> (5)
<223> Xaa in position 5 is Ala or Thr

<220>
<221> VARIANT
<222> (6)
<223> Xaa in position 6 is Phe or napthylalanine

<220>
<221> VARIANT
<222> (7)
<223> Xaa in position 7 is Thr or Ser

<220>
<221> VARIANT
<222> (8)
<223> Xaa in position 8 is Ala, Ser or Thr

<220>
<221> VARIANT
<222> (9)
<223> Xaa in position 9 is Ala, Asp or Glu

<220>
<221> VARIANT
<222> (10)
<223> Xaa in position 10 is Ala, Leu or pentylglycine

<220>
<221> VARIANT
<222> (11)
<223> Xaa in position 11 is Ala or Ser

<220>
<221> VARIANT
<222> (12)
<223> Xaa in position 12 is Ala or Lys

<220>
<221> VARIANT
<222> (13)
<223> Xaa in position 13 is Ala or Gln

<220>
<221> VARIANT

<222> (14)
<223> Xaa in position 14 is Ala, Leu, Met or
pentylglycine

<220>
<221> VARIANT
<222> (15)..(17)
<223> Xaa in positions 15, 16 & 17 is Ala or Glu

<220>
<221> VARIANT
<222> (19)
<223> Xaa in position 19 is Ala or Val

<220>
<221> VARIANT
<222> (20)
<223> Xaa in position 20 is Ala or Arg

<220>
<221> VARIANT
<222> (21)
<223> Xaa in position 21 is Ala or Leu

<220>
<221> VARIANT
<222> (22)
<223> Xaa at position 22 is Phe or napthylalanine

<220>
<221> VARIANT
<222> (23)
<223> Xaa at position 23 is Ile, Val or
tert-butylglycine

<220>
<221> VARIANT
<222> (24)
<223> Xaa at position 24 is Ala, Glu or Asp

<220>
<221> VARIANT
<222> (25)
<223> Xaa at position 25 is Ala, Trp or Phe

<220>
<221> VARIANT
<222> (26)
<223> Xaa at position 26 is Ala or Leu

<220>
<221> VARIANT
<222> (27)
<223> Xaa at position 27 is Ala or Lys

<220>

<221> VARIANT
<222> (28)
<223> Xaa at position 28 is Ala or Asn

<220>
<221> VARIANT
<222> (29)
<223> Xaa at position 29 is OH, NH2, Gly-OH, Gly-NH2,
Gly-Gly-OH, Gly-Gly-NH2 and further as indicated
in the specification

<400> 44
Xaa
1 5 10 15

Xaa Ala Xaa
20 25

<210> 45
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Construct

<220>
<221> VARIANT
<222> (1)
<223> Xaa in position 1 is His, Arg, Tyr or
4-imidazopropionyl

<220>
<221> VARIANT
<222> (2)
<223> Xaa in position 2 is Ser, Gly, Ala or Thr

<220>
<221> VARIANT
<222> (3)
<223> Xaa in position 3 is Asp or Glu

<220>
<221> VARIANT
<222> (5)
<223> Xaa in position 5 is Ala or Thr

<220>
<221> VARIANT
<222> (6)
<223> Xaa in position 6 is Ala, Phe, Tyr or
naphthylalanine

<220>
<221> VARIANT

<222> (7)
<223> Xaa in position 8 is Thr or Ser

<220>
<221> VARIANT
<222> (8)
<223> Xaa in position 8 is Ala, Ser or Thr

<220>
<221> VARIANT
<222> (9)
<223> Xaa in position 9 is Asp or Glu

<220>
<221> VARIANT
<222> (10)
<223> Xaa in position 10 is Ala, Leu, Ile, Val,
pentylglycine or Met

<220>
<221> VARIANT
<222> (11)
<223> Xaa in position 11 is Ala or Ser

<220>
<221> VARIANT
<222> (12)
<223> Xaa in position 12 is Ala or Lys

<220>
<221> VARIANT
<222> (13)
<223> Xaa in position 13 is Ala or Gln

<220>
<221> VARIANT
<222> (14)
<223> Xaa in position 14 is Ala, Leu, Ile,
pentylglycine, Val or Met

<220>
<221> VARIANT
<222> (15)..(17)
<223> Xaa in positions 15, 16 & 17 is Ala or Glu

<220>
<221> VARIANT
<222> (19)
<223> Xaa in position 19 is Ala or Val

<220>
<221> VARIANT
<222> (20)
<223> Xaa in position 20 is Ala or Arg

<220>
<221> VARIANT

<222> (21)
<223> Xaa in position 21 is Ala, Leu, Lys-NH3-R where R
is Lys, Arg, C1-C10 straight chain or branched
alkanoyl or cycloalkanoyl

<220>
<221> VARIANT
<222> (22)
<223> Xaa in position 22 is Phe, Tyr, or naphthylalanine

<220>
<221> VARIANT
<222> (23)
<223> Xaa at position 23 is Ile, Val, Leu, pentylglycine,
tert-butylglycine or Met

<220>
<221> VARIANT
<222> (24)
<223> Xaa at position 24 is Ala, Glu or Asp

<220>
<221> VARIANT
<222> (25)
<223> Xaa at position 25 is Ala, Trp, Phe, Tyr or
naphthylalanine

<220>
<221> VARIANT
<222> (26)
<223> Xaa at position 26 is Ala or Leu

<220>
<221> VARIANT
<222> (27)
<223> Xaa at position 27 is Lys-Asn, Asn-Lys,
Lys-NH3-R-Asn, Asn-Lys-NH3-R, Lys-NH3-R-Ala,
Ala-Lys-NH3-R, where R is Lys, Arg, C1-C10 straight
chain or branched alkanoyl or cycloalkylalkanoyl

<220>
<221> VARIANT
<222> (28)
<223> Xaa at position 28 is OH, NH2, Gly-OH, Gly-NH2,
Gly-Gly-OH, Gly-Gly-NH2 and further as indicated
in the specification

<400> 45
Xaa Xaa Xaa Gly Xaa
1 5 10 15

Xaa Xaa Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
20 25

<210> 46
<211> 28
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Construct

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 is His, Arg, Tyr, Ala, norvaline, Val norleucine, or 4-imidazopropionyl

<220>

<221> VARIANT

<222> (2)

<223> Xaa in position 2 is Ser, Gly, Ala, or Thr

<220>

<221> VARIANT

<222> (3)

<223> Xaa in position 3 is Ala, Asp, or Glu

<220>

<221> VARIANT

<222> (4)

<223> Xaa in position 4 is Ala, norvaline, Val, norleucine or Gly

<220>

<221> VARIANT

<222> (5)

<223> Xaa in position 5 is Ala or Thr

<220>

<221> VARIANT

<222> (6)

<223> Xaa in position 6 is Phe, Tyr or napthylalanine

<220>

<221> VARIANT

<222> (7)

<223> Xaa in position 7 is Thr or Ser

<220>

<221> VARIANT

<222> (8)

<223> Xaa in position 8 is Ala, Ser or Thr

<220>

<221> VARIANT

<222> (9)

<223> Xaa in position 9 is Ala, Norvaline, Val, Norleucine, Asp or Glu

<220>

<221> VARIANT

<222> (10)
<223> Xaa in position 10 is Ala, Leu, Ile, Val
pentylglycine or Met

<220>
<221> VARIANT
<222> (11)
<223> Xaa in position 11 is Ala or Ser

<220>
<221> VARIANT
<222> (12)
<223> Xaa in position 12 is Ala or Lys

<220>
<221> VARIANT
<222> (13)
<223> Xaa in position 13 is Ala or Gln

<220>
<221> VARIANT
<222> (14)
<223> Xaa in position 14 is Ala, Leu, Ile, pentylglycine
Val or Met

<220>
<221> VARIANT
<222> (15)...(17)
<223> Xaa in positions 15, 16 & 17 stands for Ala or Glu

<220>
<221> VARIANT
<222> (19)
<223> Xaa in position 19 is Ala or Val

<220>
<221> VARIANT
<222> (20)
<223> Xaa in position 20 is Ala or Arg

<220>
<221> VARIANT
<222> (21)
<223> Xaa in position 21 is Ala, Leu or Lys-NH₃ where R
is Lys, Arg, C₁-C₁₀ straight chain or branched
alkanoyl or cycloalleyl-alkanoyl

<220>
<221> VARIANT
<222> (22)
<223> Xaa at position 22 is Phe, Tyr or naphthylalanine

<220>
<221> VARIANT
<222> (23)
<223> Xaa at position 23 is Ile, Val, Leu, pentylglycine,
tert-butylglycine or Met

<220>
<221> VARIANT
<222> (24)
<223> Xaa at position 24 is Ala, Glu or Asp

<220>
<221> VARIANT
<222> (25)
<223> Xaa at position 25 is Ala, Trp, Phe, Tyr
or naphthylalanine

<220>
<221> VARIANT
<222> (26)
<223> Xaa at position 26 is Ala or Leu

<220>
<221> VARIANT
<222> (27)
<223> Xaa at position 27 is Lys-Asn, Asn-Lys,
Lys-NH3-R-Asn, Asn-Lys-NH3-R, Lys-NH3-R-Ala,
Ala-Lys-NH3-R, where R is Lys, Arg, C1-C10 straight
chain or branched alkanoyl or cycloalkylalkanoyl

<220>
<221> VARIANT
<222> (28)
<223> Xaa at position 28 is OH, NH2, Gly-OH, Gly-NH2,
Gly-Gly-OH, Gly-Gly-NH2 and further as indicated
in the specification

<400> 46
Xaa
1 5 10 15

Xaa Ala Xaa
20 25

<210> 47
<211> 40
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Construct

<220>
<221> VARIANT
<222> (1)
<223> Xaa in position 1 is His, Arg or Thr

<220>
<221> VARIANT
<222> (2)
<223> Xaa in position 2 is Ser, Gly, Ala, or Thr

<220>
<221> VARIANT
<222> (3)
<223> Xaa in position 3 is Asp or Glu

<220>
<221> VARIANT
<222> (6)
<223> Xaa in position 6 is Phe, Tyr or naphthalanine

<220>
<221> VARIANT
<222> (7)
<223> Xaa in position 7 is Thr or Ser

<220>
<221> VARIANT
<222> (8)
<223> Xaa in position 8 is Ser or Thr

<220>
<221> VARIANT
<222> (9)
<223> Xaa in position 9 is Asp or Glu

<220>
<221> VARIANT
<222> (10)
<223> Xaa in position 10 is Leu, Ile, Val, pentylglycine or Met

<220>
<221> VARIANT
<222> (14)
<223> Xaa at position 14 is Leu, Ile, pentylglycine, Val or Met

<220>
<221> VARIANT
<222> (22)
<223> Xaa in position 22 is Phe, Tyr or naphthylalanine

<220>
<221> VARIANT
<222> (23)
<223> Xaa in position 23 is Ile, Val, Leu, pentylglycine, tert-butylglycine or Met

<220>
<221> VARIANT
<222> (24)
<223> Xaa in position 24 is Glu or Asp

<220>
<221> VARIANT
<222> (25)

<223> Xaa in position 25 is Trp, Phe, Tyr or naphthylalanine

<220>

<221> VARIANT

<222> (31)

<223> Xaa in position 31 is independently Pro, homoproline, 3-hydroxyproline, 4-hydroxyproline, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine

<220>

<221> VARIANT

<222> (36)..(38)

<223> Xaa in positions 36, 37 & 38 is independently Pro, homoproline, 3-hydroxyproline, 4-hydroxyproline, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine

<220>

<221> VARIANT

<222> (39)

<223> Xaa in position 39 is Ser, Thr or Tyr

<220>

<221> VARIANT

<222> (40)

<223> Xaa in position 40 is -OH or -NH₃, with the proviso that the compound does not have the formula of either SEQ. ID. NOS. 1 or 2

<400> 47

Xaa Xaa Xaa Gly Thr Xaa Xaa Xaa Xaa Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Xaa Xaa Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa Xaa Xaa
35 40

<210> 48

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Construct

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 is His, Arg, Tyr or 4-imidazopropionyl

<220>

<221> VARIANT
<222> (2)
<223> Xaa in position 2 is Ser, Gly, Ala or Thr

<220>
<221> VARIANT
<222> (3)
<223> Xaa in position 3 is Asp or Glu

<220>
<221> VARIANT
<222> (6)
<223> Xaa in position 6 is Phe, Tyr or naphthylalanine

<220>
<221> VARIANT
<222> (7)...(8)
<223> Xaa in positions 7 & 8 is Thr or Ser

<220>
<221> VARIANT
<222> (9)
<223> Xaa in position 9 is Asp or Glu

<220>
<221> VARIANT
<222> (10)
<223> Xaa in position 10 is Leu, Ile, Val, pentylglycine
or Met

<220>
<221> VARIANT
<222> (14)
<223> Xaa at position 14 is Leu, Ile, pentylglycine,
Val or Met

<220>
<221> VARIANT
<222> (22)
<223> Xaa in position 22 is Phe, Tyr or naphthylalanine

<220>
<221> VARIANT
<222> (23)
<223> Xaa in position 23 is Ile, Val, Lu, pentylglycine,
tert-butylglycine or Met

<220>
<221> VARIANT
<222> (24)
<223> Xaa in position 24 is Glu or Asp

<220>
<221> VARIANT
<222> (25)
<223> Xaa in position 25 is Trp, Phe, Tyr, or

naphthylalanine

<220>

<221> VARIANT

<222> (27)

<223> Xaa in position 27 is Lys-Asn-Lys, Lys-NH3-R-Asn, Asn-Lys-NH3-R where R is Lys, Arg, C1-C10 straight chain or branched alkanoyl or cycloalkylalkanoyl

<220>

<221> VARIANT

<222> (30)

<223> Xaa in position is independently Pro, homoproline, 3-hydroxyproline, 4-hydroxyproline, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine

<220>

<221> VARIANT

<222> (35)..(39)

<223> Xaa in positions 35-39 is independently Pro, homoproline, 3-hydroxyproline, 4-hydroxyproline, thioproline, N-alkylglycine, N-alkylpentylglycine or N-alkylalanine

<220>

<221> VARIANT

<222> (40)

<223> Xaa in position 40 is -OH or NH₂, with the proviso that the compound does not have the formula of either SEQ. ID. NOS. 1 or 2

<400> 48

Xaa Xaa Xaa Gly Thr Xaa Xaa Xaa Xaa Xaa Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Xaa Xaa Xaa Leu Xaa Gly Gly Xaa Ser Ser
20 25 30

Gly Ala Xaa Xaa Xaa Xaa Xaa Xaa
35 40

<210> 49.

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (30)

<223> Gly in position 30 is amidated

<400> 49

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
20 25 30

<210> 50

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 50

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 51

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 51

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 52

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 52
His Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 53
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 53
His Gly Glu Gly Ala Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 54
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 54
His Gly Glu Gly Thr Ala Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 55
<211> 28
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 55

His Gly Glu Gly Thr Phe Thr Ala Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 56

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 56

His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 57

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 57

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ala Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 58
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 58
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 59
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 59
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 60
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)

<223> Asn in position 28 is amidated

<400> 60

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn

20 25

<210> 61

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 61

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Ala Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn

20 25

<210> 62

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 62

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Ala
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn

20 25

<210> 63

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 63

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Ala Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 64

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 64

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Ala Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 65

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 65

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Ala Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 66
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 66
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu
1 5 10 15

Glu Ala Val Arg Ala Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 67
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 67
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Ala Phe Leu Lys Asn
20 25

<210> 68
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 68

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn
20 25

<210> 69
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 69
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Ala Lys Asn
20 25

<210> 70
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 70
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Ala Asn
20 25

<210> 71
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Ala in position 28 is amidated

<400> 71
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Ala
20 25

<210> 72
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (38)
<223> Pro in position 38 is amidated

<400> 72
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly Ala Pro Pro Pro
35

<210> 73
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (38)
<223> Pro in position 38 is amidated

<400> 73
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly Ala Pro Pro Pro

<210> 74
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (37)
<223> Pro in position 37 is amidated

<400> 74
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro
35

<210> 75
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (37)
<223> Pro in position 37 is amidated

<400> 75
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro
35

<210> 76
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

Amino Acid Sequence

<220>
<221> AMIDATION
<222> (36)
<223> Pro in position 36 is amidated

<400> 76
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro
35

<210> 77
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (36)
<223> Pro in position 36 is amidated

<400> 77
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro
35

<210> 78
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (35)
<223> Ala in position 35 is amidated

<400> 78
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu

1

5

10

15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 79
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (35)
<223> Ala in position 35 is amidated

<400> 79
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 80
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (34)
<223> Gly in position 34 is amidated

<400> 80
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly

<210> 81

<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (34)
<223> Gly in position 34 is amidated

<400> 81
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly

<210> 82
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (33)
<223> Ser in position 33 is amidated

<400> 82
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

<210> 83
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (33)

<223> Ser in position 33 is amidated

<400> 83

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

<210> 84

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (32)

<223> Ser in position 32 is amidated

<400> 84

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

<210> 85

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (32)

<223> Ser in position 32 is amidated

<400> 85

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

<210> 86

<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (31)
<223> Pro in position 31 is amidated

<400> 86
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro
20 25 30

<210> 87
<211> 31
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (31)
<223> Pro in position 31 is amidated

<400> 87
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro
20 25 30

<210> 88
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (30)
<223> Gly in position 30 is amidated

<400> 88
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu

1

5

10

15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly
20 25 30

<210> 89

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (29)

<223> Gly in position 29 is amidated

<400> 89

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly
20 25

<210> 90

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (29)

<223> Gly in position 29 is amidated

<400> 90

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly
20 25

<210> 91

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> VARIANT
<222> (31)
<223> Xaa in position 31 is tPro

<220>
<221> VARIANT
<222> (36)...(38)
<223> Xaa in positions 36-38 is tPro

<220>
<221> AMIDATION
<222> (38)
<223> tPro in position 38 is amidated

<400> 91
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa
35

<210> 92
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (36)...(38)
<223> Xaa in positions 36-38 is tPro

<220>
<221> AMIDATION
<222> (38)
<223> tPro in position 38 is amidated

<400> 92
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa
35

<210> 93
<211> 37
<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> VARIANT

<222> (31)

<223> Xaa in position 31 stands for Nme

<220>

<221> AMIDATION

<222> (37)

<223> Pro in position 37 is amidated

<400> 93

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Pro Pro

35

<210> 94

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> VARIANT

<222> (31)

<223> Xaa in position 31 is Nme

<220>

<221> VARIANT

<222> (36) .. (37)

<223> Xaa in positions 36-37 is Nme

<220>

<221> AMIDATION

<222> (37)

<223> Nme in position 37 is amidated

<400> 94

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa
35

<210> 95
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (31)
<223> Xaa in position 31 stands for hPro

<220>
<221> VARIANT
<222> (36)..(37)
<223> Xaa in positions 36-37 stands for hPro

<220>
<221> AMIDATION
<222> (37)
<223> hPro in position 37 is amidated

<400> 95
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa
35

<210> 96
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (31)
<223> Xaa in position 31 stands for hPro

<220>
<221> VARIANT
<222> (36)
<223> Xaa in position 36 stands for hPro

<220>
<221> AMIDATION
<222> (36)
<223> hPro in position 36 is amidated

<400> 96
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa
35

<210> 97
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (35)
<223> Ala in position 35 is amidated

<400> 97
Arg Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 98
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (30)
<223> Gly in position 30 is amidated

<400> 98
His Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
20 25 30

<210> 99
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (6)
<223> Xaa in position 6 stands for naph

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 99
His Gly Glu Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 100
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 100
His Gly Glu Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 101
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic

Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 101

His Gly Glu Gly Thr Phe Ser Thr Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 102

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 102

His Gly Glu Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Met Ala Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 103

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> VARIANT

<222> (10)

<223> Xaa in position 10 stands for pGly

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 103

His Gly Glu Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 104
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (22)
<223> Xaa in position 22 stands for naph

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 104
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Phe Leu Lys Asn
20 25

<210> 105
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (23)
<223> Xaa in position 23 stands for tBug

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 105
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Xaa Glu Trp Leu Lys Asn
20 25

<210> 106

<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 106
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Asp Phe Leu Lys Asn
20 25

<210> 107
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (33)
<223> Ser in position 33 is amidated

<400> 107
His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

<210> 108
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (29)
<223> Gly in position 29 is amidated

<400> 108

His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly
20 25

<210> 109

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> VARIANT

<222> (31)

<223> Xaa in position 31 stands for hPro

<220>

<221> VARIANT

<222> (36)..(37)

<223> Xaa in positions 36-37 stands for hPro

<220>

<221> AMIDATION

<222> (37)

<223> hPro in position 37 is amidated

<400> 109

His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa

35

<210> 110

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 stands for
4-Imidazolylpropionyl-Gly

<220>
<221> VARIANT
<222> (26)
<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (27)
<223> Asn in position 27 is amidated

<400> 110
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn
20 25

<210> 111
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (1)
<223> Xaa in position 1 stands for
4-Imidazolylpropionyl-Gly

<220>
<221> VARIANT
<222> (26)
<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (27)
<223> Asn in position 27 is amidated

<400> 111
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn
20 25

<210> 112
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (1)
<223> Xaa in position 1 stands for
4-Imidazolylpropionyl-Gly

<220>
<221> VARIANT
<222> (26)
<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (29)
<223> Gly in position 29 is amidated

<400> 112
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn Gly Gly
20 25

<210> 113
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (1)
<223> Xaa in position 1 stands for
4-Imidazolylpropionyl-Gly

<220>
<221> VARIANT
<222> (26)
<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (29)
<223> Gly in position 29 is amidated

<400> 113
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn Gly Gly
20 25

<210> 114

<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (1)
<223> Xaa in position 1 stands for
4-Imidazolylpropionyl-Gly

<220>
<221> VARIANT
<222> (27)
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (27)
<223> Lys-NH(epsilon) octanoyl in position 27 is amidated

<400> 114
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa
20 25

<210> 115
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
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<222> (1)
<223> Xaa in position 1 stands for
4-Imidazolylpropionyl-Gly

<220>
<221> VARIANT
<222> (27)
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (27)
<223> Lys-NH(epsilon) octanoyl in position 27 is amidated

<400> 115

Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa
20 25

<210> 116
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
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<222> (1)
<223> Xaa in position 1 stands for
4-Imidazolylpropionyl-Gly

<220>
<221> VARIANT
<222> (27)
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (29)
<223> Gly in position 29 is amidated

<400> 116
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa Gly Gly
20 25

<210> 117
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
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Amino Acid Sequence

<220>
<221> VARIANT
<222> (1)
<223> Xaa in position 1 stands for
4-Imidazolylpropionyl-Gly

<220>
<221> VARIANT
<222> (27)
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (29)
<223> Gly in position 29 is amidated

<400> 117
Xaa Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa Gly Gly
20 25

<210> 118
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 118
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 119
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 119
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 120
<211> 28

<212> PRT
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<220>
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Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 120
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 121
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
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Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 121
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 122
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 122
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 123
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 123
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 124
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 124
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 125
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 125

His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 126

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 126

His Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 127

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 127

Ala Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 128

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 128

Ala Ala Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn

20 25

<210> 129

<211> 28

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 129

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn

20 25

<210> 130

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 130

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn

20 25

<210> 131
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 131
Ala Gly Asp Gly Ala Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 132
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 132
Ala Gly Asp Gly Ala Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 133
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (6)
<223> Xaa in position 6 stands for Nala

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 133
Ala Gly Asp Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 134
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (6)
<223> Xaa in position 6 stands for Nala

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 134
Ala Gly Asp Gly Thr Xaa Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 135
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<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
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<222> (28)
<223> Asn in position 28 is amidated

<400> 135
Ala Gly Asp Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn

<210> 136
<211> 28
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
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<222> (28)
<223> Asn in position 28 is amidated

<400> 136
Ala Gly Asp Gly Thr Phe Ser Ser Asp Leu Ser Lys Gln Leu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 137
<211> 28
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 137
Ala Gly Asp Gly Thr Phe Thr Ala Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 138
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 138

Ala Gly Asp Gly Thr Phe Thr Ala Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 139

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 139

Ala Gly Asp Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 140

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 140

Ala Gly Asp Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 141

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 141

Ala Gly Asp Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 142

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 142

Ala Gly Asp Gly Thr Phe Thr Ser Glu Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 143

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 143

Ala Gly Asp Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 144

<211> 28
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 144
Ala Gly Asp Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 145
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (10)
<223> Xaa in position 10 stands for Pgly

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 145
Ala Gly Asp Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 146
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
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<222> (10)

<223> Xaa in position 10 stands for Pgly

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 146

Ala Gly Asp Gly Thr Phe Thr Ser Asp Xaa Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn

20 25

<210> 147

<211> 28

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 147

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ala Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn

20 25

<210> 148

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 148

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ala Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn

20 25

<210> 149
<211> 28
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<220>
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Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 149
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 150
<211> 28
<212> PRT
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<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 150
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Ala Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 151
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<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 151

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 152
<211> 28
<212> PRT
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<220>
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Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 152
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Ala Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 153
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 153
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 154
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 154
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Ala Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 155
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (14)
<223> Xaa in position 14 stands for pGly

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 155
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 156
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (14)
<223> Xaa in position 14 stands for pGly

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 156

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Xaa Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 157

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 157

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Ala Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 158

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 158

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Ala Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 159

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 159

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Ala
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 160

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 160

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Ala
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 161

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 161

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Ala Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 162

<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 162
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Ala Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 163
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 163
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Ala Arg Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 164
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 164
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu

1

5

10

15

Glu Ala Ala Arg Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 165

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 165

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Ala Leu Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 166

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 166

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Ala Leu Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 167

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 167

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Ala Phe Ile Glu Trp Leu Lys Asn
20 25

<210> 168

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 168

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Ala Phe Ile Glu Phe Leu Lys Asn
20 25

<210> 169

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> VARIANT

<222> (22)

<223> Xaa in position 22 stands for Nala

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 169

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Trp Leu Lys Asn
20 25

<210> 170
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (22)
<223> Xaa in position 22 stands for Nala

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 170
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Xaa Ile Glu Phe Leu Lys Asn
20 25

<210> 171
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 171
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Val Glu Trp Leu Lys Asn
20 25

<210> 172
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 172
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Val Glu Phe Leu Lys Asn
20 25

<210> 173
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (23)
<223> Xaa in position 23 stands for tGly

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 173
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Xaa Glu Trp Leu Lys Asn
20 25

<210> 174
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (23)
<223> Xaa in position 23 stands for tGly

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 174

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Xaa Glu Phe Leu Lys Asn
20 25

<210> 175

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 175

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Asp Trp Leu Lys Asn
20 25

<210> 176

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (28)

<223> Asn in position 28 is amidated

<400> 176

Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Asp Phe Leu Lys Asn
20 25

<210> 177

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 177
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn
20 25

<210> 178
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 178
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Ala Leu Lys Asn
20 25

<210> 179
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 179
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Ala Lys Asn
20 25

<210> 180
<211> 28

<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 180
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Ala Lys Asn
20 25

<210> 181
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 181
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Ala Asn
20 25

<210> 182
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 182
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Ala Asn
20 25

<210> 183
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Ala in position 28 is amidated

<400> 183
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Ala
20 25

<210> 184
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (28)
<223> Ala in position 28 is amidated

<400> 184
Ala Gly Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Ala
20 25

<210> 185
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION

<222> (38)

<223> Pro in position 38 is amidated

<400> 185

Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro
35

<210> 186

<211> 38

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (38)

<223> Pro in position 38 is amidated

<400> 186

His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro
35

<210> 187

<211> 37

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (37)

<223> Pro in position 37 is amidated

<400> 187

His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro
35

<210> 188
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (36)
<223> Pro in position 36 is amidated

<400> 188
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro
35

<210> 189
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (36)
<223> Pro in position 36 is amidated

<400> 189
Ala Gly Glu Gly Thr Phe Thr Ser Asp Ala Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro
35

<210> 190
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (35)
<223> Ala in position 35 is amidated

<400> 190
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 191
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (35)
<223> Ala in position 35 is amidated

<400> 191
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 192
<211> 34
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (34)
<223> Gly in position 34 is amidated

<400> 192
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly

<210> 193
<211> 33
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (33)
<223> Ser in position 33 is amidated

<400> 193
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser

<210> 194
<211> 32
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (32)
<223> Ser in position 32 is amidated

<400> 194
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

<210> 195
<211> 32
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (32)

<223> Ser in position 32 is amidated

<400> 195

His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

<210> 196

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (31)

<223> Pro in position 31 is amidated

<400> 196

His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro
20 25 30

<210> 197

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (30)

<223> Gly in position 30 is amidated

<400> 197

His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly
20 25 30

<210> 198
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (29)
<223> Gly in position 29 is amidated

<400> 198
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly
20 25

<210> 199
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (31)
<223> Xaa in position 31 stands for tPro

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa in positions 36-38 stands for tPro

<220>
<221> AMIDATION
<222> (38)
<223> tPro in position 38 is amidated

<400> 199
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa
35

<210> 200
<211> 38
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (36)..(38)
<223> Xaa in positions 36-38 stands for tPro

<220>
<221> AMIDATION
<222> (38)
<223> tPro in position 38 is amidated

<400> 200
His Gly Glu Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Xaa Xaa Xaa
35

<210> 201
<211> 37
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (31)
<223> Xaa in position 31 stands for Nme

<220>
<221> VARIANT
<222> (36)..(37)
<223> Xaa in positions 36-37 stands for Nme

<220>
<221> AMIDATION
<222> (37)
<223> Nme in position 37 is amidated

<400> 201
His Gly Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa Xaa
35

<210> 202
<211> 36
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (31)
<223> Xaa in position 31 stands for hPro

<220>
<221> VARIANT
<222> (36)
<223> Xaa in position 36 stands for hPro

<220>
<221> AMIDATION
<222> (36)
<223> hPro in position 36 is amidated

<400> 202
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa Ser
20 25 30

Ser Gly Ala Xaa
35

<210> 203
<211> 35
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (35)
<223> Ala in position 35 is amidated

<400> 203
His Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala
35

<210> 204
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (30)
<223> Gly in position 30 is amidated

<400> 204
His Gly Asp Ala Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly
20 25 30

<210> 205
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 205
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 206
<211> 39
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> AMIDATION

<222> (39)

<223> Ser in position 39 is amidated

<400> 206

Ala Gly Ala Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 207

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 stands for
4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> (26)

<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (27)

<223> Asn in position 27 is amidated

<400> 207

Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn
20 25

<210> 208

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 stands for 4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> (26)

<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (27)

<223> Asn in position 27 is amidated

<400> 208

Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn
20 25

<210> 209

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Amino Acid Sequence

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 stands for 4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> (26)

<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (29)

<223> Gly in position 29 is amidated

<400> 209

Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn Gly Gly

<210> 210
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (1)
<223> Xaa in position 1 stands for
4-Imidazolylpropionyl-Gly

<220>
<221> VARIANT
<222> (26)
<223> Xaa in position 26 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (29)
<223> Gly in position 29 is amidated

<400> 210

Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn Gly Gly
20 25

<210> 211
<211> 27
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (1)
<223> Xaa in position 1 stands for
4-Imidazolylpropionyl-Gly

<220>
<221> VARIANT
<222> (27)
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (27)

<223> Lys-NH(epsilon) octanoyl in position 27 is amidated

<400> 211

Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa
20 25

<210> 212

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 stands for
4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> (27)

<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (27)

<223> Lys-NH(epsilon) octanoyl

<400> 212

Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa
20 25

<210> 213

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 stands for
4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> (27)

<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (29)

<223> Gly in position 29 is amidated

<400> 213

Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Met Glu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa Gly Gly

20 25

<210> 214

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> VARIANT

<222> (1)

<223> Xaa in position 1 stands for
4-Imidazolylpropionyl-Gly

<220>

<221> VARIANT

<222> (27)

<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (29)

<223> Gly in position 29 is amidated

<400> 214

Xaa Glu Gly Thr Phe Thr Ser Ala Leu Ser Lys Gln Leu Glu Glu Glu
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa Gly Gly

20 25

<210> 215

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (27)
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 215
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn
20 25

<210> 216
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (27)
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (28)
<223> Asn in position 28 is amidated

<400> 216
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn
20 25

<210> 217
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (27)
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (30)
<223> Gly in position 30 is amidated

<400> 217
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Xaa Asn Gly Gly
20 25 30

<210> 218
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (27)
<223> Xaa in position 27 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (30)
<223> Gly in position 30 is amidated

<400> 218
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Xaa Asn Gly Gly
20 25 30

<210> 219
<211> 28
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (28)
<223> Xaa in position 28 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (28)
<223> Lys-NH(epsilon) octanoyl in position 28 is amidated

<400> 219

Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa
20 25

<210> 220

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> VARIANT

<222> (28)

<223> Xaa in position 28 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (28)

<223> Lys-NH(epsilon) octanoyl in position 28 is amidated

<400> 220

Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa
20 25

<210> 221

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> VARIANT

<222> (28)

<223> Xaa in position 28 stands for Lys-NH(epsilon) octanoyl

<220>

<221> AMIDATION

<222> (30)

<223> Gly in position 30 is amidated

<400> 221

Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Asn Xaa Gly Gly

20

25

30

<210> 222
<211> 30
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> VARIANT
<222> (28)
<223> Xaa in position 28 stands for Lys-NH(epsilon) octanoyl

<220>
<221> AMIDATION
<222> (30)
<223> Gly in position 30 is amidated

<400> 222
Ala Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Leu Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Phe Leu Asn Xaa Gly Gly
20 25 30

<210> 223
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> MOD_RES
<222> (12)
<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 223
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 224
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> MOD_RES
<222> (27)
<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 224
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 225
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> MOD_RES
<222> (2)
<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 225
His Lys Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 226
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> MOD_RES
<222> (5)
<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 226
His Gly Glu Gly Lys Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 227
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> MOD_RES
<222> (8)
<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 227
His Gly Glu Gly Thr Phe Thr Lys Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 228
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> MOD_RES
<222> (10)
<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 228
His Gly Glu Gly Thr Phe Thr Ser Asp Lys Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 229
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> MOD_RES
<222> (11)
<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 229

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Lys Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 230
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> MOD_RES
<222> (13)
<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 230
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Lys Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 231
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> MOD_RES
<222> (16)
<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)

<223> Ser in position 39 is amidated

<400> 231

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Lys
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 232

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> MOD_RES

<222> (17)

<223> Lys-PEG

<220>

<221> AMIDATION

<222> (39)

<223> Ser in position 39 is amidated

<400> 232

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Lys Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 233

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> MOD_RES

<222> (19)

<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 233
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Lys Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 234
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> MOD_RES
<222> (21)
<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 234
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Lys Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 235
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> MOD_RES

<222> (24)
<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 235
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Lys Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly Ala Pro Pro Pro Ser
35

<210> 236
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> MOD_RES
<222> (25)
<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 236
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Lys Leu Lys Asn Gly Gly Pro Ser
20 25 30
Ser Gly Ala Pro Pro Pro Ser
35

<210> 237
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> MOD_RES
<222> (28)
<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 237
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Lys Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 238
<211> 39
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>
<221> MOD_RES
<222> (29)
<223> Lys-PEG

<220>
<221> AMIDATION
<222> (39)
<223> Ser in position 39 is amidated

<400> 238
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Lys Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 239
<211> 39
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
Amino Acid Sequence

<220>

<221> MOD_RES

<222> (30)

<223> Lys-PEG

<220>

<221> AMIDATION

<222> (39)

<223> Ser in position 39 is amidated

<400> 239

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Lys Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35